Pre-radiator

Toshio Numao

Progress

•Chamber

Data taking for large angles has started.

Chamber without Al extrusion is being tested.

•Scintillator

Flat surface (one side).

Nearly rectangular shape.

Hole quality will be improved.

Prototype

IIIc has been completed.

The design of IV (full scale module) is nearly completed. Construction will start soon.

•Electronics

ADC board has been delivered and is being tested.

TDC board design is in progress.

Action Items

1. Need to provide performance evaluation of specifications by simulation, i.e. S/B vs Δ E/E, $\Delta\theta$, etc...all items on spec page. Appealing to MC group. TN 2. Provide mechanical details of chamber/scintillator support/connectivity--issue of mechanical stability of thin chambers held from bottom without lamination to scintillator package? Will see in a month. RH 3. Estimate of time and cost to post-machine scintillator extrusion. Working. RH Suggest test cutting of prototype extrusion. 4. Done. 5. Measurement of light yields before and after machining. No change (within 10 %). Measurement of uniformity of response along length of extrusion before 6. and after machining. n/a. However, in progress. AS/SB 7. Measurement of response across lap joints. In progress AS/SB

Action Items cont'd

8. Address issue of changing response with age given number of glue joints in plane and fibers.

In progress as a part of (7).

9. Suggest plan for combined prerad and shashlyk test (use of existing 5x5 array tested last year?)

In 3 months...

AS

10. Provide simulation resources to answer open issues (i.e. notches vs slit, etc). Who?

Appealing to MC group.

TN

Discuss robustness of chambers without fins---broken wire lose whole plane?

Curling... We'll see soon.

12. Provide written specs on utility requirements.

After IV construction...

PA

13. Provide written spec/plan for space.

After IV construction...

RH

14. How are chambers purged (N2?) Anticipated leak rates and safety issues? 5-10 % may leak $\rightarrow 4$ lit./min of N2.

Pre-radiator Project Schedule

- 2.4.1 Chamber
 Chamber, gas system
- 2.4.2 Scintillator

 Extruded scintillator → sheet (machining, gluing)

 Fibers, PMTs
- 2.4.3 Electronics
 Front end electronics, Anode (TDC), Cathode (ADC),
 HV, Cables, Slow control, Readout (for scint.), Cooling
- 2.4.4 Mechanical L-plates, Support rails,... Transport, Storage...
- 2.4.5 Photon Veto (Who?)
 Shashlyk

		Start	Design an	FY04		FY05		FY06		FY07		FY	08	FYO	9	FY	10			\neg	
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